

IN THE CLAIMS:

1. (Currently Amended) A cranial flap clamp for fixing a bone flap to a skull comprising:

a first clamping member having inner and outer surfaces, at least a portion of the inner surface positionable against inferior surfaces of the bone flap and skull;

an extension member extending from the first clamping member and configured and dimensioned to fit between the bone flap and the skull;

a second clamping member having inner and outer surfaces and ~~an~~ a substantially rectangular opening through the inner and outer surfaces for slidably receiving the extension member, with at least a portion of the inner surface positionable against superior surfaces of the bone flap and skull, the opening having a recessed area forming a cutting surface;

wherein movement of at least one of the first and second clamping members from a first position with the second clamping member distal to the first clamping member to a second position with the second clamping member proximal to the first clamping member urges the inner surface of the first clamping member against the inferior surfaces of the bone flap and skull and urges the inner surface of the second clamping member against the superior surfaces of the bone flap and skull; and

an integrally formed stop on the extension member provided by mechanical deformation of the extension member at a surgeon selected location along its length and adjacent the outer surface of the second clamping member when the first and second clamping members are in the second position to secure the inner surface of the first clamping member against the inferior surfaces of the bone flap and skull and the inner surface of the second clamping member against the superior surfaces of the bone flap and skull;

wherein the stop is formed by twisting and shearing of the extension member, which is sized and configured to fit substantially within the recessed area.

2. (Currently Amended) A cranial flap clamp for fixing a bone flap to a skull comprising:

a first clamping member having inner and outer surfaces, at least a portion of the inner surface positionable against inferior surfaces of the bone flap and skull;

a substantially smooth extension member extending from the first clamping member and configured and dimensioned to fit between the bone flap and the skull;

a second clamping member having inner and outer surfaces and an opening through the inner and outer surfaces for slidably receiving the extension member, with at least a portion of the inner surface positionable against superior surfaces of the bone flap and skull,

wherein movement of at least one of the first and second clamping members from a first position with the second clamping member distal to the first clamping member to a second position with the second clamping member proximal to the first clamping member urges the inner surface of the first clamping member against the inferior surfaces of the bone flap and skull and urges the inner surface of the second clamping member against the superior surfaces of the bone flap and skull;

wherein the second clamping member is fixed with respect to the extension member by a crimping force applied to the extension member adjacent the second clamping member.

3. (Original) The cranial flap clamp of claim 2 wherein the inner surfaces of the first and second clamping members are concave with the first and second clamping members in the first position and the inner surfaces of the first and second clamping members flatten out when the first and second clamping members are in the second position.

4. (Previously Amended) The cranial flap clamp of claim 3 wherein the second clamping member has a disk shape with a plurality of cutouts extending radially inwards from an outer circumference of the second clamping member.

5. (Previously Amended) The cranial flap clamp of claim 2, wherein the extension member is a tube and the stop comprises a crimp in the tube.

6. (Original) The cranial flap clamp of claim 5 wherein the extension member includes a head located at a distal end and the first clamping member includes a bore for slidably receiving the extension member, the head engaging edges of the bore to prevent the first clamping member from sliding off the extension member.

7. (Original) The cranial flap clamp of claim 6 wherein the tube has an enlarged portion near the inner surface of the first clamping member for preventing movement of the first clamping member along the tube away from the head.

8. (Original) The cranial flap clamp of claim 5 wherein, when the first and second clamping members are in the first position, the tube includes a flared proximal portion for preventing the second clamping member from sliding off the tube.

9. (Original) The cranial flap clamp of claim 5 wherein the opening has a substantially circular shape which is smaller than the crimp.

10. (Original) The cranial flap clamp of claim 9 wherein the opening includes a countersink for receiving the stop and the stop fits substantially within the countersink.

11. (Previously Amended) A cranial flap clamp for fixing a bone flap to a skull comprising:

a first clamping member having inner and outer surfaces, at least a portion of the inner surface positionable against inferior surfaces of the bone flap and skull;

an extension member extending from the first clamping member and configured and dimensioned to fit between the bone flap and the skull;

a second clamping member having inner and outer surfaces and an opening through the inner and outer surfaces for slidably receiving the extension member, with at least a portion of the inner surface positionable against superior surfaces of the bone flap and skull,

wherein movement of at least one of the first and second clamping members from a first position with the second clamping member distal to the first clamping member to a second position with the second clamping member proximal to the first clamping member urges the inner surface of the first clamping member against the inferior surfaces of the bone flap and skull and urges the inner surface of the second clamping member against the superior surfaces of the bone flap and skull; and

wherein at least one of the clamping members has a plurality of radial cutouts extending radially inwards from an outer circumference of the member, the radial cutouts being configured to allow the clamping member to at least partially conform to the outer surface of the bone flap and skull.

12. (Previously Amended) The cranial flap clamp of claim 76 wherein the stop comprises a twisted portion of the ribbon.

13. (Original) The cranial flap clamp of claim 12 wherein the second clamping member is provided with a recessed area surrounding the opening, wherein the stop fits substantially within the recessed area.

14. (Previously Amended) The cranial flap clamp of claim 13 wherein the recessed area forms a cutting surface so that the stop may be formed by twisting and shearing of the ribbon.

15. (Original) The cranial flap clamp of claim 11 wherein the extension member is integral with the first clamping member.

16. (Original) The cranial flap clamp of claim 11 wherein the second clamping member has at least one fastener hole for receiving a fastener.

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Previously Amended) A cranial flap clamp for fixing a bone flap to a skull comprising:
a first clamping member positionable against inferior surfaces of the bone flap and skull;
an extension member extending from the first clamping member and configured and dimensioned to extend between the bone flap and the skull;
a second clamping member positionable against superior surfaces of the bone flap and skull and comprising an opening in which a portion of the extension member is disposed; and
an integrally formed stop on the extension member for limiting movement of the second clamping member when the first clamping member abuts the inferior surfaces and the second clamping member abuts the superior surfaces;
wherein the portions of the first and second clamping members that abut the surfaces of the bone flap and skull are substantially smooth.

28. (Canceled)

29. (Previously Presented) The cranial flap clamp of claim 27, wherein the first and second clamping members each further comprise a disk shape.

30. (Previously Amended) The cranial flap clamp of claim 29, wherein the second clamping member further comprises a plurality of cutouts extending radially inwards from an outer circumference of the member.

31. (Previously Presented) The cranial flap clamp of claim 27, wherein the extension member comprises a tube and the stop comprises a crimp in the tube.

32. (Previously Presented) The cranial flap clamp of claim 31, wherein the opening has a substantially circular shape that is smaller than the crimp.

33. (Previously Presented) The cranial flap clamp of claim 27, further comprising a head disposed on the extension member proximate the first clamping member.

34. (Previously Presented) The cranial flap clamp of claim 27, wherein the first clamping member comprises a bore for receiving the extension member.

35. (Previously Presented) The cranial flap clamp of claim 27, wherein the opening comprises a countersink and the stop is disposed substantially within the countersink.
36. (Previously Presented) The cranial flap clamp of claim 27, wherein the first and second clamping members each comprise an arcuate outer edge.
37. (Previously Presented) The cranial flap clamp of claim 27, wherein the extension member comprises a ribbon.
38. (Previously Presented) The cranial flap clamp of claim 37, wherein the stop comprises a twisted portion of the ribbon.
39. (Previously Presented) The cranial flap clamp of claim 27, wherein the stop comprises a twisted portion of the extension member.
40. (Previously Presented) The cranial flap clamp of claim 27, wherein the second clamping member comprises a recessed area proximate the opening.
41. (Previously Presented) The cranial flap clamp of claim 40, wherein the stop is received in the recessed area.
42. (Previously Amended) The cranial flap clamp of claim 40, wherein the recessed area forms a cutting surface.
43. (Previously Presented) The cranial flap clamp of claim 27, wherein the extension member is integral with the first clamping member.
44. (Previously Presented) The cranial flap clamp of claim 27, wherein the second clamping member comprises at least one fastener hole for receiving a fastener.

45. (Currently Amended) A cranial flap clamp for fixing a bone flap to a skull comprising:

- a first clamping member;
- a substantially smooth extension member extending from the first clamping member;
- a second clamping member comprising an opening in which a portion of the extension member is disposed; the second clamping member having a plurality of radial cutouts extending radially inwards from an outer circumference of the member; and
- an integrally formed stop on the extension member provided by twisting and shearing mechanical deformation of the extension member at a surgeon selected location along its length for limiting movement of the second clamping member on the extension member.

46. (Previously Presented) The cranial flap clamp of claim 45, wherein the extension member is integral with the first clamping member.

47. (Canceled)

48. (Canceled)

49. (Previously Presented) The cranial flap clamp of claim 45, wherein opposing surfaces of the first and second clamping members are substantially smooth.

50. (Currently Amended) The cranial flap clamp of claim 1, wherein the ~~ribbed~~ extension member is substantially smooth.

51. (Previously Presented) The cranial flap clamp of claim 50, wherein the extension member is integral with the first clamping member.

52. (Previously Presented) The cranial flap clamp of claim 50, wherein the first clamping member comprises a bore for receiving the extension member.

53. (Previously Presented) The cranial flap clamp of claim 52, further comprising a head disposed on the extension member for slidably engaging the bore to prevent the first clamping member from sliding off the extension member.

54. (Previously Presented) The cranial flap clamp of claim 50, wherein, the extension member includes a flared proximal portion for preventing the second clamping member from sliding off.

55. (Canceled)

56. (Canceled)

57. (Canceled)

58. (Previously Presented) The cranial flap clamp of claim 1, wherein the inner surfaces of the first and second clamping members are concave with the first and second clamping members in the first position and the inner surfaces of the first and second clamping members flatten out when the first and second clamping members are in the second position.

59. (Previously Presented) The cranial flap clamp of claim 58, wherein the second clamping member has a disk shape with a plurality of cutouts extending radially inward from an outer circumference of the second clamping member.

60. (Canceled)

61. (Canceled)

62. (Canceled)

63. (Canceled)

64. (Previously Presented) The cranial flap clamp of claim 1 wherein the second clamping member has at least one fastener hole for receiving a fastener.

65. (Previously Presented) The cranial flap clamp of claim 1 wherein the portions of the first and second clamping members that abut the surfaces of the bone flap and skull are substantially smooth.

66. (Canceled)

67. (Previously Presented) The cranial flap clamp of claim 2, wherein the extension member is integral with the first clamping member.

68. (Canceled)
69. (Canceled)
70. (Canceled)
71. (Canceled)
72. (Previously Presented) The cranial flap clamp of claim 2, wherein the second clamping member has at least one fastener hole for receiving a fastener.
73. (Previously Presented) The cranial flap clamp of claim 2, wherein the portions of the first and second clamping members that abut the surfaces of the bone flap and skull are substantially smooth.
74. (Canceled)
75. (Previously Presented) The cranial flap clamp of claim 11, further comprising a stop provided on the extension member, wherein the stop is provided by mechanical deformation of the extension member at a surgeon selected location along its length.
76. (Previously Presented) The cranial flap clamp of claim 75, wherein the extension member is a ribbon and the opening of the second clamping member has a rectangular shape.
77. (Previously Presented) The cranial flap clamp of claim 75, wherein the extension member is substantially smooth.
78. (Previously Presented) The cranial flap clamp of claim 77, wherein the first clamping member comprises a bore for receiving the extension member.
79. (Previously Presented) The cranial flap clamp of claim 78, further comprising a head disposed on the extension member for slidably engaging the bore to prevent the first clamping member from sliding off the extension member.
80. (Previously Presented) The cranial flap clamp of claim 79, wherein the extension member includes a flared proximal portion for preventing the second clamping member from sliding off.

81. (Currently Amended) The cranial flap clamp of claim 75 76, wherein the extension member is a tube and the stop comprises a crimp in the tube.

82. (Previously Presented) The cranial flap clamp of claim 81, wherein the opening has a substantially circular shape that is smaller than the crimp.

83. (Previously Presented) The cranial flap clamp of claim 82, wherein the opening includes a countersink for receiving the stop and the stop fits substantially within the countersink.

84. (Previously Presented) The cranial flap clamp of claim 83, wherein the second clamping member comprises a recessed area proximate the opening for receiving the stop.

85. (Previously Presented) The cranial flap clamp of claim 11, wherein the portions of the first and second clamping members that abut the surfaces of the bone flap and skull are substantially smooth.

86. (Previously Presented) The cranial flap clamp of claim 27, wherein the extension member is substantially smooth.

87. (Previously Presented) The clamp of claim 86, further comprising a stop provided on the extension member, wherein the stop is provided by mechanical deformation of the extension member at a surgeon selected location along its length.